Tripp Lite
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PowerVerter APS X 6000W 48VDC 208/230V Inverter/Charger with Line-Interactive AVR, Hardwired

MODEL NUMBER: **APSX6048VRNET**

Highlights

- 48V DC or 208/230V (selectable) AC input; 208/230V, 50/60 Hz, pure sine wave output (hardwired)
- 6000 watts continuous, 9000 watts OverPower and 12000 watts DoubleBoost inverter output
- 3-stage, 23/90 amp selectable wet/dry cell battery charger; Auto Transfer Switching; Automatic Voltage Regulation
- DB9 communication port for SNMPWEBSOLOHV management.
- Excellent for alternative power and standby power needs.

Applications

- Ideal for RVs, over-the-road trucking, conversion vans and fleet service vehicles; a standalone alternative power source for off-grid, alternative energy or export applications, and as an uninterruptible power supply (UPS). NOTE: For sump pump applications, Tripp Lite recommends its APS Truck Inverter/Chargers.

Package Includes

- APSX6048VRNET Inverter/Charger
- Instruction manual with warranty information

Description

Tripp Lite's APSX6048VR DC-to-AC inverter with automatic line-to-battery transfer and integrated charging system serves as an extended run UPS, a standalone power source or an inverter. Supplies up to 6000 watts of continuous 208 or 230V sine wave AC power from any 48V battery or automotive DC source. When hardwire AC input is energized, commercial power passes through to connected equipment and the battery set is recharged via 3 stage, 23/90 amp charging system. In UPS mode, the APS system responds to blackouts and severe voltage fluctuations with a near instantaneous automatic transfer to battery-derived AC output. Includes a set of high current DC input terminals for simple installation (user supplies batteries and cabling - see owner's manual for recommendations). Passes sine wave utility or generator power during battery charging and UPS line power operation, and sine wave AC output in inverter and UPS backup modes. Built-in Automatic Voltage Regulation (AVR) corrects line power AC brownouts and overvoltages without using battery power during battery charging and UPS standby modes. Reliable large transformer design, with frequency control powers resistive electronic loads or large inductive motors, compressors and other items with high current needs on startup. Optional APSRM4 wired remote power switch with full status LEDs provides remote power inverter on/off switching and continuous status information (part# APSRM4 sold separately). Supports an unlimited amount of runtime with any number of user-supplied batteries connected. Highly adaptable to a variety of applications and site conditions with adjustable charger settings for wet/gel battery types and selectable line to battery power transfer voltages. DB9 communication port for SNMPWEBSOLOHV management.

Features

- Supports 208/230V AC output from a 208/230V AC line power source or 48V DC battery source
- 6000W continuous sinewave AC output in inverter mode
- Double Boost output supports momentary start-up loads up to 200% of the continuous rating for up to 10 seconds (see specification chart) - OverPower output supports longer duration overloads to 150% for up to 60 seconds
- 3-stage, selectable 23/90 amp battery charger with adjustable settings for wet/gel battery types

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- Set of 6 front panel LEDs display continuous status information
- Set of 4 dip switches support AC input selection of 230V, selectable 50 /60Hz frequency, and selectable full or half cycle transfer times
- Set of 4 dip switches support wet/gel battery charging profiles, adjustable 260/270V (230V) high voltage auto transfer during overvoltages and selectable 150/60V / 170/180V (230V) AC low voltage auto transfer during brownouts
- Set of 4 additional dip switches support battery equalization program and battery charger low / high settings
- Automatic overload and thermal (overheating) shutoff
- Front panel remote control connector enables remote off/on switching (APSRM4 sold separately)
- Load sensing control dial enables adjustable load threshold required to automatically turn the inverter on and off in DC mode as load conditions change
- Automatic Generator Starter jack enables user configuration of automatic generator start-up as inverter batteries drop to 23.0 VDC and generator shutoff as inverter batteries are recharged to 28.2 VDC.
- Remote battery temperature sensing connection function prolongs battery life by adjusting the charge float voltage level based on battery temperature
- DB9 communication port for SNMPWEBSOLOHV management.

Specifications

General Info	
RoHS	Y
OVERVIEW	
Style	Heavy-duty with built-in battery charger
OUTPUT	
Frequency Compatibility	50 / 60 Hz
Output Receptacles	Hardwire
Output (Watts)	6000
Continuous Output Capacity (Watts)	6000
Peak Output Capacity (Watts)	12000
Output Nominal Voltage	208/230V
Output Voltage Regulation	LINE POWER (AC): Maintains 208/230V nominal sine wave output from line power source. INVERTER POWER (AC): Maintains sine wave output voltage of 208/230 VAC (+/-5%).
Output Frequency Regulation	50/60 Hz (+/- 0.3 Hz)
INPUT	
Nominal Input Voltage(s) Supported	208V AC; 230V AC
Recommended Electrical Service	DC INPUT: Requires 48VDC input source capable of delivering 138A for the required duration (when used at full continuous capacity - DC requirements increase during OverPower and DoubleBoost operation). For automotive applications, professional hardwire installation with 250A minimum battery system fusing is recommended.
Maximum Input Amps / Watts	DC INPUT: Full continuous load - 145A at 48VDC. AC INPUT: 30 amps at 208/230VAC with full inverter and charger load
Input Connection Type	DC INPUT: Set of DC bolt-down terminals. AC INPUT: Hardwire via built in terminal strip with cover plate

Voltage Compatibility (VAC)	208; 230
Voltage Compatibility (VDC)	48
BATTERY	
Expandable Battery Runtime	Runtime is expandable with any number of user supplied wet or gel type batteries
DC System Voltage (VDC)	48
Battery Pack Accessory (Optional)	98-121 sealed lead acid battery (optional)
Battery Charge	Selectable 23 / 90 amp
VOLTAGE REGULATION	
Voltage Regulation Description	Includes automatic voltage regulation to correct brownouts and over-voltages back to usable levels
Overvoltage Correction	Over-voltages are automatically reduced by 10%
Brownout Correction	Brownouts are automatically boosted by 10% and 20%
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	Set of 6 LEDs offer continuous status information on load percentage (6 levels reported) and battery charge level (7 levels reported). See manual for sequences.
Switches	3 position on/off/remote switch enables simple on/off power control plus "auto/remote" setting that enables distant on/off control of the inverter system when used in conjunction with optional APSRM4 accessory when used in inverter mode. In AC uninterruptible power mode, auto/remote setting enables automatic transfer from line power to battery power - to maintain continuous AC power to connected loads.
PHYSICAL	
Shipping Dimensions (hwd / in.)	17.13 x 23.82 x 14.17
Shipping Dimensions (hwd / cm)	43.51 x 60.5 x 36
Shipping Weight (lbs.)	125
Shipping Weight (kg)	56.25
Unit Dimensions (hwd / in.)	10 x 19.5 x 9
Unit Dimensions (hwd / cm)	25.5 x 49.5 x 22.71
Unit Weight (lbs.)	106
Unit Weight (kg)	47.7
Cooling Method	Dual multi-speed fan
Material of Construction	Metal
ENVIRONMENTAL	
Relative Humidity	0-95% non-condensing
LINE / BATTERY TRANSFER	

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Transfer Time (Line Power to Battery Mode)	Dip-switch selectable 20 millisecond (full cycle) / 10 millisecond (half-cycle) transfer times which are compatible with many computers, servers and networking equipment - verify transfer time compatibility of loads for UPS applications
Low Voltage Transfer to Battery Power	In 230V AC "auto" mode, inverter/charger switches to battery mode as line voltage drops to 170V AC (user adjustable to 180V). In 208V AC "auto" mode, inverter/charger switches to battery mode as line voltage drops to 165V (user adjustable to 175V)-see manual
High Voltage Transfer to Battery Power	In 230V AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 260V (user adjustable to 270 - see manual), In 208V AC "auto" mode, inverter/charger switches to battery mode as line voltage increases to 235V (user adjustable to 245V-see manual)
SPECIAL FEATURES	
Load Sensing	Optional load sense function enables automatic inverter shutoff and startup as connected equipment is powered off and on. Front panel load sense potentiometer can be set to shutoff or turn on inverter power in response to loads of any level, up to 150 watts.
Remote Control Capability	Yes
TVSS Grounding	Main grounding lug connects inverter/charger to earth or vehicle chassis ground
CERTIFICATIONS	
Certifications	RoHS compliant
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty

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